



CINT2000 Result

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Bull
NovaScale 5160 (1400MHz)

SPECint_rate2000 = 158

SPECint_rate_base2000 = 157

SPEC license #: 20 | Tested by: JFL | Test date: Jul-2003 | Hardware Avail: Sep-2003 | Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	165	158	16	165	158
175.vpr	16	182	143	16	182	143
176.gcc	16	105	194	16	98.8	207
181.mcf	16	383	87.2	16	383	87.2
186.crafty	16	103	181	16	101	185
197.parser	16	299	112	16	301	111
252.eon	16	111	217	16	111	217
253.perlbnk	16	197	169	16	197	169
254.gap	16	178	115	16	178	115
255.vortex	16	159	221	16	160	220
256.bzip2	16	177	158	16	177	158
300.twolf	16	271	206	16	271	206

Hardware

CPU: Itanium 2 processor 1400 MHz
 CPU MHz: 1400
 FPU: Integrated
 CPU(s) enabled: 16 cores, 16 chips, 1 core/chip
 CPU(s) orderable: 4 to 16
 Parallel: No
 Primary Cache: 16KBI + 16KBD on chip
 Secondary Cache: 256KB(I+D) on chip
 L3 Cache: 4MB (I+D) off chip
 Other Cache: N/A
 Memory: 64 GB (4 * 16 * 1GB DIMMs)
 Disk Subsystem: 1 SJ0812 Disk drawer with
 2 15krpm 36GB SCSI disks
 Other Hardware:

Software

Operating System: Linux 64 bit : Red Hat Advanced Server 2.1 + Bull expansion Pack
 Compiler: Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)
 File System: ext2
 System State: multi User

Notes/Tuning Information

+FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:

C programs: -ipo -O3 +FDO
 C++ programs: -ipo -O2 +FDO -ansi_alias

Portability Flags:

176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
 186.crafty: -DLINUX_i386
 252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
 253.perlbnk: -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL
 -DSPEC_CPU2000_LINUX_IA64 -DSPEC_CPU2000_GLIBC22
 254.gap: -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG
 -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
 255.vortex: -DSPEC_CPU2000_LP64

Peak optimization flags:

164.gzip: basepeak=yes
 175.vpr: basepeak=yes



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Notes/Tuning Information (Continued)

```
176.gcc: +FDO -ipo -O2
164.gzip: basepeak=yes
186.crafty: +FDO -ipo -O2
197.parser: +FDO -ipo -O2
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: +FDO -ipo -O2
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```